

United States Patent and Trademark Office



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	T NAMED INVENTOR	
10/000 112		THEST INAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/009,112	12/07/2001	Seiji Sato	9793822-0157 6231	
. 7	590 04/18/2003			
David R Metzger				
Sonnenschein Nath & Rosenthal			EXAMINER	
Wacker Drive S	Station		CHOWDHURY, TARIFUR RASHID	
PO Box 061080 Chicago, IL 60606-1080				
			ART UNIT	PAPER NUMBER
			2871	
			DATE MAILED: 04/18/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	applicant(s)				
Office Action Summary	10/009,112	SATO ET AL.				
- Canmary	Examiner	/ Art Unit				
The MAILING DATE of this communication	Tarifur R Chowdhury	2871				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earmed patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a r within the statutory minimum of thirt rill apply and will expire SIX (6) MON	eply be timely filed y (30) days will be considered timely. THS from the mailing data of this second in the mailing data of this second in the second in t				
1) Responsive to communication(s) filed on						
0-10						
20) Ini	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>07 December 2001</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents h	ave boon received					
2. Certified copies of the priority documents have been received in Application No.						
3. Opies of the certified copies of the priority documents have been as a second of the certified copies of the priority documents have been as a second of the certified copies of the priority documents have been as a second of the certified copies of the priority documents have been as a second of the certified copies of the priority documents have been as a second of the certified copies of the priority documents have been as a second of the certified copies of the priority documents have been as a second of the certified copies of the priority documents have been as a second of the certified copies of the priority documents have been as a second of the certified copies of the certified copi						
* See the attached detailed Office action for a list of the certified copies not received						
14) Acknowledgment is made of a claim for domestic p	riority under 35 U.S.C. 8 1	19(e) (to a provinional analisation)				
 a) ☐ The translation of the foreign language provising 15)☐ Acknowledgment is made of a claim for domestic pattachment(s) 	ional application by the					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3. Patent and Trademark Office	4) Interview Sum 5) Notice of Infor 6) Other:	nmary (PTO-413) Paper No(s) mal Patent Application (PTO-152)				
O-326 (Rev. 04-01) Office Action Summary						

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. Figures 1-5 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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5. Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "the front surface" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the back side" in 4. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the right eye" in line 8. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the left eye" in line 9. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the illuminating light" in line 14. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the front sides" in line 18. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the image information" in line 24. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "said first and second polarizing filters" in line 26.

There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the user" in line 28. There is insufficient antecedent basis for this limitation in the claim.

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Claim 2 recites the limitation "said first and second polarizing filters" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

Claim 2 recites the limitation "the facing linear polarizing filter lines" in lines 3-4. There is insufficient antecedent basis for this limitation in the claim.

Claim 3 recites the limitation "said first and second polarizing filters" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

Claim 4 recites the limitation "said second polarizing filter" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

Claim 14 recites the limitation "said first polarizing filter" in lin4. There is insufficient antecedent basis for this limitation in the claim.

Claim 4 recites the limitation "the driving states" in line 7. There is insufficient antecedent basis for this limitation in the claim.

Claim 7 recites the limitation "the reflected light" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Claim 7 recites the limitation "the user's head" in line 4. There is insufficient antecedent basis for this limitation in the claim.

Claim 10 recites the limitation "the direction" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Claim 12 recites the limitation "said first and second polarizing filters" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

Claim 13 recites the limitation "said second polarizing filter" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

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Claim 13 recites the limitation "said first polarizing filter" in line 4. There is insufficient antecedent basis for this limitation in the claim.

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Claim 13 recites the limitation "the driving states" in line 7. There is insufficient antecedent basis for this limitation in the claim.

Claim 16 recites the limitation "said dichromic molecules" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

It appears that claim 16 should have been dependent on claim 15.

Claim 19 recites the limitation "the light incident" in lines 2-3. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all 6. obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- This application currently names joint inventors. In considering patentability of 7. the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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8. Claims 10, 11 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ma et al., (Ma), USPAT 6,344,887.

- 9. Ma discloses and shows in Fig. 6A, a liquid crystal display device comprising:
- a cholesteric polarizer (260) (applicant's first image separating means) for separating the light illuminated from a light source (630) depending on a direction of polarization;
- light modulating means (210) having liquid crystals sealed within a pair of transparent electrode plates, the light modulation means modulating the intensity of light transmitted through the first image separating means;
- another cholesteric polarizer (250) (applicant's second image separating means) for separating the light transmitted through the light modulating means depending on the direction of polarization;

As to clamping one of the image separating means and the modulating means by a pair of substrates is common and known in the art and thus would have been obvious to avail a proven technique.

Accordingly, claims 10 and 11 would have been obvious.

As to claim 20, using the liquid crystal display in a stereoscopic display is considered as intended use and thus would have been obvious.

Allowable Subject Matter

10. Claims 1-9 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

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11. Claims 12-19 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R Chowdhury whose telephone number is (703) 308-4115. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William L Sikes can be reached on (703) 305-4842. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7005 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

T. Chowdhury
Primary Examiner

Technology Center 2800

TRC April 14, 2003